

Amendment To The Claims

1. (Currently amended) A method of seamlessly transferring [[a]] an ongoing communication session between a first device and a correspondent device on an IP network from the first device to a second device, the method comprising:

initiating a communication session between the first device and the correspondent device, the first device using a session specific IP address as the first device IP address, and being configured to allow a user to receive or send the communication session therefrom, whereby the correspondent device is able to communicate with the first device during the communication session;

negotiating to transfer the communication session from the first device to the second device, the second device being configured to allow a user to receive or send the communication session therefrom; and

transferring the first device IP address from the first device to the second device so that communication session data transferred from the correspondent device to the first device via the address thereof will be received by the second device.

2. (Original) A method according to claim 1, wherein the negotiating to transfer the session comprises: creating a method for securely transferring the communication session from the first device to the second device.

3. (Original) A method according to claim 2, where the created method for securely transferring the communication session comprises: generating a random number to

serve as a session key for the secure transfer of the communication session between the first device and the second device.

4. (Original) A method according to claim 2, wherein the method further comprises:

encrypting the session key; transferring the encrypted session key from one of said first device and second device to the other of said first device and second device; and using the session key to securely transfer the communication session between the first device and the second device.

5. (Original) A method according to claim 1, wherein the method further comprises: generating a wake-up message once the communication session is no longer to be transferred causing the first device to resume receiving communication sessions addressed to its IP address.

6. (Original) A method according to claim 1, wherein the first device and the second device are located on different subnets and the method further comprises:

notifying an Agent of the desire to transfer so that the Agent can intercept the sessions addressed to the first device IP address;

intercepting the sessions addressed to the first device at the first device IP address via the Agent; and

tunneling the session from the first device to the second device once the first device IP address has been transferred to the second device.

7. (Original) A method according to claim 6, wherein the method further comprises: authenticating the notice from the first device to the Agent to ensure that the first device is the source of the notice.

8. (Original) A method according to claim 6, wherein the method further comprises: notifying the Agent whether the second device is authorized to transfer the session.

9. (Currently amended) A method of seamlessly transferring [[a]] an ongoing communication session between a first device and a correspondent device on an IP network from the first device to a second device, the method comprising:

requesting the initiation of a communication session between the correspondent device and the first device, the first device being configured to allow a user to receive or send the communication session therefrom, whereby the correspondent device is able to communicate with the first device during the communication session;

generating an IP address specifically for initiating the communication session between the correspondent device and the first device;

initiating the communication session between the correspondent device and the first device using the session specific IP address;

registering a desire to transfer the communication session from the first device to a second device, the second device being configured to allow a user to receive or send the communication session therefrom; and

transferring the session specific IP address from the first device to the second device so that data transferred from the correspondent device to the first device via the address thereof will be received by the second device.

10. (Currently amended) A method according to claim 9, wherein the method comprises:

requesting the initiation of a communication session between the correspondent device and the first device via use of a permanent IP address associated with the first device; and allowing the first device to participate in additional communication sessions after the transfer of the communication session from the first device to the second device has occurred via the first device's permanent IP address.

11. (Original) A method according to claim 9, wherein the method further comprises: negotiating the transfer between the first device to the second device so that each device is aware of the transfer and authorized to participate in the transfer.

12. (Currently amended) A method according to claim 11, wherein the negotiation further comprises: generating a random number to serve as a session key for the secure transfer of the communication session between the first device and the second device so that the communication session can only be transferred between authorized devices.

13. (Currently amended) A method according to claim 11, wherein the negotiation further comprises: identifying whether the second device can transfer the communication session

on to another device so that the second device cannot improperly transfer the communication session to another device unless such permission has been previously given.

14. (Currently amended) A method according to claim 9, wherein the method further comprises: notifying the second device of any information that is needed to maintain use of the session specific IP address so that the session specific IP address will continue to work throughout the communication session transfer.

15. (Original) A method according to claim 9, wherein the first device and second device are on the same subnet and the method further comprises: intercepting the session addressed to the first device at the session specific IP address via the second device.

16. (Original) A method according to claim 15, wherein the interception of the session comprises: using a Proxy ARP message to bind a link-layer address associated with the second device to the session specific IP address.

17. (Original) A method according to claim 9, wherein the first device and second device are on separate subnets and the method further comprises:
registering the session specific IP address with an Agent so that the Agent can intercept the session addressed to the session specific IP address and transfer the session from the first device to the second device;
intercepting the session addressed to the session specific IP address via the Agent; and

transferring the session addressed to the session specific IP address from the first device to the second device.

18. (Original) A method according to claim 17, wherein the transferring further comprises: tunneling the session addressed to the session specific IP address to the second device so that the second device will receive the session originally addressed to the first device.

19. (Original) A method according to claim 9, wherein the method further comprises: releasing the session specific IP address once the session has ended so that the address can be reused for future sessions.

20. (Currently amended) A method for transferring [[a]] an ongoing communication session in an IP network from a first node to a second node via use of an IP address without disrupting the communication session, the method comprising:

initiating a communication session request between a first node and a Correspondent Node using base IP addresses for the nodes, the first node being configured to allow a user to receive or send the communication session therefrom, whereby the Correspondent Node is able to communicate with the first node during the communication session;

generating a communication session specific IP address with which the communication session will be associated;

initiating a communication session between the first node and the Correspondent Node using the session specific IP address;

negotiating a transfer of the session specific IP address from the first node to a second node such that the second node will generally assume communicating with the Correspondent Node, the second node being configured to allow a user to receive or send the communication session therefrom;

generating a Proxy ARP message to bind a link-layer address associated with the second node to the session specific IP address so that the second node can intercept the communications pertaining to the session specific IP address; and

intercepting the communications addressed to the session specific IP address via the second node such that the communication session with the Correspondent Node continues without interruption.

21. (Currently amended) A method of transferring [[a]] an ongoing communication session between a Transferring Node and a Correspondent Node from the Transferring Node to a Target Node without disrupting the communication session, the method comprising:

initializing a communication session between a Correspondent Node and a Transferring Node by having the Correspondent Node contact the Transferring Node via a permanent IP address assigned to the Transferring Node, the Transferring Node being configured to allow a user to receive or send the communication session therefrom, whereby the Correspondent Node is able to communicate with the Transferring Node during the communication session;

obtaining a specific IP address for the initialized communication session;

mapping the session specific IP address to the Transferring Node's permanent IP address;

notifying the Correspondent Node of the session specific IP address for the initialized communication session;

communicating between the Correspondent Node and the Transferring Node via the session specific IP address; and
transferring the session specific IP address from the Transferring Node to the Target Node when a session transfer is ready to occur, the Target Node being configured to allow a user to receive or send the communication session therefrom.

22. (Currently amended) The method of claim 21, wherein the transfer of the communication session further comprises:
negotiating the session transfer between the Transferring Node and the Target Node;
generating a random number to serve as a session key as a result of the negotiating;
encrypting the session key via a security association between the Transferring Node and an Agent; and
transmitting the encrypted session key between the Transferring Node and the Target Node;
notifying the Agent that the communication session is being transferred from the Transferring Node to the Target Node;
authenticating the transfer notification by having the Agent verify that the Transferring Node sent the transfer notification;
intercepting the session communications intended for the Transferring Node via the Agent; and
tunneling the session communications intended for the Transferring Node to the Target Node via the Agent.

23. (Original) The method of claim 21, wherein the method further comprises: allowing the Transferring Node to participate in another communication session while the transferring a first session to a Target Node.

24. (Currently amended) A system for seamlessly transferring [[a]] an ongoing communication session between different devices on an IP network occurring between a remote information source and one of the devices, the system comprising:

a first device having a first IP address that is used to direct packets intended for receipt by the first device from the remote source over the network to the first device, the first device being configured to allow a user to receive or send the communication session therefrom, whereby the remote source is able to communicate with the first device during the communication session;

a second device having a second IP address that is used to direct packets intended for receipt by the second device from the remote source over the network to the second device, the second device being configured to allow a user to receive or send the communication session therefrom;

a switch associated with the first device and the second device operable to enable the second device to receive at least certain ones of the packets intended for the first device from the remote information source for seamless session transfer between the devices;

an Agent for intercepting the packets sessions of communication directed to the first device at the first IP address and transferring these sessions to the second device;

an IP address generator for generating a session specific IP address which the remote information source and the first device use to conduct the session of communication; and

a session specific IP address generated by the IP address generator.

25. (Currently amended) A system for seamlessly transferring [[a]] an ongoing communication session on an IP network, the system comprising:
- a Correspondent Node for transmitting and receiving packets of data within a communication session of communication;
 - a Transferring Node having a Transferring Node IP address and a session specific IP address, the Transferring Node being capable of participating in the communication session of communication with the Correspondent Node, and being configured to allow a user to receive or send the communication session therefrom;
 - a Target Node capable of participating in the communication session of communication with the Correspondent Node, and being configured to allow a user to receive or send the communication session therefrom; and
 - an IP network capable of transferring the communication session of communication between the Correspondent Node and the Transferring Node from the Transferring Node to the Target Node by transferring the session specific IP address from the Transferring Node to the Target Node thereby allowing the Transferring Node to continue to participate in communication sessions of communication via its Transferring Node IP address.

26. (Currently amended) A system according to claim 25, wherein the system further comprises: an Agent for intercepting the communication session of communication directed to the session specific IP address and transferring these sessions to the Target Node located on a foreign subnet.

27. (Currently amended) A method for transferring [[a]] an ongoing communication session in an IP network from a first node to a second node via use of an IP address without disrupting the communication session, the method comprising:

initiating a communication session request between a first node and a Correspondent Node using base IP addresses for the nodes, the first node being configured to allow a user to receive or send the communication session therefrom, whereby the Correspondent Node is able to communicate with the first node during the communication session;

generating a communication session specific IP address with which the communication session will be associated;

initiating a communication session between the first node and the Correspondent Node using the session specific IP address;

negotiating a transfer of the session specific IP address from the first node to a second node such that the second node will generally assume communicating with the Correspondent Node, the second node being configured to allow a user to receive or send the communication session therefrom;

notifying an Agent about the transfer so that the Agent can intercept communications addressed to the session specific IP address and forward the communications to the second node; and

intercepting and forwarding the communications addressed to the session specific IP address to the second node such that the communication session with the Correspondent Node continues without interruption.